ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Improvements of Road and drains in Kodigehalli and surrounding in Ward No. 08, Kodigehalli, BBMP, Bangalore.

Type of Road Surface	Minimum Number of Tests as per IRC norms	Number of Test done during execution	Percentage of Tests carried out as per IRC norms
I	II	III	IV
CIVIL WORKS	20	20	100%
TOTAL	**20**	**20**	**100%**

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JE/AE

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Improvements of Road and drains in Kodigehalli and surrounding in Ward No. 08, Kodigehalli, BBMP, Bangalore.

Description	Quantity	Unit	Total Number of test to be carried out as per IRC	Actual Number of Test to be conducted	% Completed
I	II	III	IV	V	IV
1) PCC 1:4:8 a)Cement b)M.Sand c)40MM Aggregates d)20MM Aggregates e)Sand Pointing	46.44	Cum	5	5	100%
2)Cube M20	92.88	Cum	12	12	100%
3)Steel (8,10MM)	4.64	Tonnes	2	2	100%
4)Kerb Stone	557	No's	1	1	100%
TOTAL			**20**	**20**	**100%**

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/CEMENT/2019-20 Date: 18.01.2020

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of Work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Cement
Sample Received on	:	16.01.2020
Period of Testing	:	16.01.2020 to 18.01.2020
Report Issue Date	:	18.01.2020

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	380 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Assistant Executive Engineer
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Yelahanka Zone, B.B.M.P.,
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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/SAND-Gradation/2019-20 18.01.2020

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of Work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	:	16.01.2020
Date of Testing	:	18.01.2020
Report Issue Date	:	18.01.2020

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.50	90-100	90-100	90-100	95-100
2.36	78.50	60-95	75-100	85-100	95-100
1.18	64.00	30-70	55-90	75-100	90-100
600 Micron	43.20	15-34	35-59	60-79	80-100
300 Micron	17.60	5-20	8-30	12-40	15-50
150 Micron	6.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/AGG/GR/2019-20 18.01.2020

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of Work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	16.01.2020
Date of Testing	:	18.01.2020
Report Issue Date	:	18.01.2020

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.44	95-100	85-100
20	37.04	30-70	0-20
10	17.06	10-35	0-5
4.75	2.76	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/AGG/GR/2019-20 18.01.2020

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of Work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Coarse Aggregates (20mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963(RA-2016)
Sample Received on	:	16.01.2020
Date of Testing	:	18.01.2020
Report Issue Date	:	18.01.2020

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	97.54	95-100	85-100
10	37.14	25-55	0-20
4.75	5.90	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/NVR/W.No.08/Steel/2019-20 21.01.2020

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Samples ID	:	8 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2016)
Date of Testing	:	21.01.2020
Report Issue Date	:	21.01.2020

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	551	13.05	O.K	O.K

*Information is furnished by the Customer/Representative.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/NVR/W.No.08/Steel/2019-20 21.01.2020

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Samples ID	:	10 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2016)
Date of Testing	:	21.01.2020
Report Issue Date	:	21.01.2020

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	555	13.1	O.K	O.K

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/Cube/2019-20 21.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	21.02.2020
Report Issue Date	:	21.02.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.01.2020	21.02.2020	8.105	475.5	21.13
2	24.01.2020	21.02.2020	8.210	485.6	21.58
3	24.01.2020	21.02.2020	8.380	504.6	22.43

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/Cube/2019-20 21.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	21.02.2020
Report Issue Date	:	21.02.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.01.2020	21.02.2020	8.228	485.6	21.58
2	24.01.2020	21.02.2020	8.315	495.5	22.02
3	24.01.2020	21.02.2020	8.415	501.6	22.29

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/Cube/2019-20 21.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
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* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	21.02.2020
Report Issue Date	:	21.02.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.01.2020	21.02.2020	8.325	505.4	22.46
2	24.01.2020	21.02.2020	8.415	519.7	23.10
3	24.01.2020	21.02.2020	8.259	523.6	23.27

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/Cube/2019-20 24.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	24.02.2020
Report Issue Date	:	24.02.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.01.2020	24.02.2020	8.115	501.2	22.28
2	27.01.2020	24.02.2020	8.221	475.5	21.13
3	27.01.2020	24.02.2020	8.320	493.2	21.92

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/Cube/2019-20 24.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	24.02.2020
Report Issue Date	:	24.02.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.01.2020	24.02.2020	8.105	495.5	22.02
2	27.01.2020	24.02.2020	8.215	504.8	22.44
3	27.01.2020	24.02.2020	8.380	528.6	23.49

*Information is furnished by the Customer/Representative.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/Cube/2019-20 24.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	24.02.2020
Report Issue Date	:	24.02.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.01.2020	24.02.2020	8.215	486.6	21.63
2	27.01.2020	24.02.2020	8.392	492.2	21.88
3	27.01.2020	24.02.2020	8.456	511.9	22.75

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/Cube/2019-20 27.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.02.2020
Report Issue Date	:	27.02.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.01.2020	27.02.2020	8.128	474.5	21.09
2	30.01.2020	27.02.2020	8.269	484.6	21.54
3	30.01.2020	27.02.2020	8.320	501.3	22.28

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/Cube/2019-20 27.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
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* Name of the work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.02.2020
Report Issue Date	:	27.02.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.01.2020	27.02.2020	8.350	510.3	22.68
2	30.01.2020	27.02.2020	8.398	526.9	23.42
3	30.01.2020	27.02.2020	8.402	538.9	23.95

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* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.02.2020
Report Issue Date	:	27.02.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.01.2020	27.02.2020	8.090	474.5	21.09
2	30.01.2020	27.02.2020	8.119	492.3	21.88
3	30.01.2020	27.02.2020	8.208	504.5	22.42

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/Cube/2019-20 02.03.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	02.03.2020
Report Issue Date	:	02.03.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.02.2020	02.03.2020	8.105	502.4	22.33
2	03.02.2020	02.03.2020	8.220	516.6	22.96
3	03.02.2020	02.03.2020	8.350	529.9	23.55

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/Cube/2019-20 02.03.2020

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* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	02.03.2020
Report Issue Date	:	02.03.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.02.2020	02.03.2020	8.099	502.2	22.32
2	03.02.2020	02.03.2020	8.117	519.4	23.08
3	03.02.2020	02.03.2020	8.229	508.9	22.62

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/Cube/2019-20 02.03.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of the work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	02.03.2020
Report Issue Date	:	02.03.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.02.2020	02.03.2020	8.105	498.5	22.16
2	03.02.2020	02.03.2020	8.285	519.6	23.09
3	03.02.2020	02.03.2020	8.336	502.8	22.35

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/SAND-Gradation/2019-20 12.02.2020

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of Work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
*Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
*Sample ID	:	Sand For Pointing
Test Method As Per	:	IS - 1542 : 1992 (RA-2019)
Sample Received on	:	10.02.2020
Date of Testing	:	12.02.2020
Report Issue Date	:	12.02.2020

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specification Limits as per IS : 1542 - 1992 (RA-2019)
10	100	100
4.75	98.70	95-100
2.36	97.70	95-100
1.18	94.90	90-100
600 Micron	89.80	80-100
300 Micron	46.90	20-65
150 Micron	13.00	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/NVR/W.No.08/CSR-13i/Kerbstone/2019-20

12.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N. Venkata Reddy,** #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), Bangalore – 560086.
* Name of work	:	Improvements of road and drains in Kodigehalli and surrounding in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/147/2019-20 Dated : 08.11.2019
* Sample ID	:	Kerbstone
* Grade of Concrete	:	M_{15}
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample Received on	:	10.02.2020
Date of Testing	:	12.02.2020
Report Issue Date	:	12.02.2020

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.395	2514.65	1.60	0.957	23.80	12.12	13.09	13.68	17.10
2	50.00	81.00	0.398	2502.47	1.62	0.959	24.60	12.53	13.53	14.11	17.64
3	50.00	82.00	0.405	2515.42	1.64	0.961	25.30	12.89	13.92	14.48	18.10

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